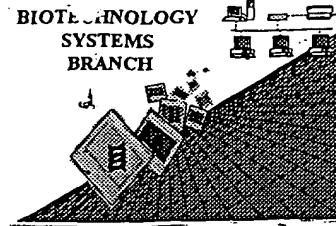


*[Handwritten signatures]*

1380  
0590 0420  
dld

**RAW SEQUENCE LISTING**  
**ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101006,856  
Source: O1PE  
Date Processed by STIC: 12/14/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.  
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:  
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,  
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY  
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.  
PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)  
PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

#### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**  
**<http://www.uspto.gov/web/offices/pac/checker>**

## Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>10   006,856</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHIA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) <input type="checkbox"/> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <input type="checkbox"/> Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input checked="" type="checkbox"/> Use of <220>	Sequence(s) <input type="checkbox"/> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/006,856

DATE: 12/14/2001  
TIME: 10:21:11

Input Set : A:\Seq\_List\_for\_P2830P1C14.wpd  
Output Set: N:\CRF3\12142001\I006856.raw

Does Not Comply  
Corrected Diskette Needed

Errors on pp. 9 + 10

→ The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

```

3 <110> APPLICANT: Baker, Kevin P.
4     Botstein, David
5     Desnoyers, Luc
6     Eaton, Dan L.
7     Ferrara, Napoleone
8     Fong, Sherman
9     Gao, Wei-Qiang
10    Goddard, Audrey
11    Godowski, Paul J.
12    Grimaldi, Christopher J.
13    Gurney, Austin L.
14    Hillan, Kenneth J.
15    Pan, James
16    Paoni, Nicholas F.
18 <120> TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
19     Acids Encoding the Same
21 <130> FILE REFERENCE: P2830P1C14
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C--> 23 <141> CURRENT FILING DATE: 2001-12-06
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VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/006,856

DATE: 12/14/2001  
TIME: 10:21:12

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Output Set: N:\CRF3\12142001\I006856.raw

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L:23 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:520 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1  
L:523 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1  
L:533 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2  
L:536 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2  
L:681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
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L:2808 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:46  
L:2818 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:47  
L:2821 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:47  
L:2831 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:48  
L:2834 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:48  
L:3957 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:59

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/10/006,856

DATE: 12/14/2001  
TIME: 10:21:12

Input Set : A:\Seq\_List\_for\_P2830P1C14.wpd  
Output Set: N:\CRF3\12142001\I006856.raw

L:3960 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:59  
L:3970 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:60  
L:3973 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:60  
L:3983 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:61  
L:3986 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:61  
L:4030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62  
L:4122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63  
L:4158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63  
L:4185 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:64  
L:4188 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:64  
L:4198 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:65  
L:4201 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:65  
L:4211 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:66  
L:4214 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:66  
L:4694 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:73  
L:4697 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:73  
L:4707 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:74  
L:4710 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:74  
L:4720 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:75  
L:4723 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:75  
L:5092 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:80  
L:5095 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:80  
L:5108 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:81  
L:5118 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:82  
L:5121 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:82  
L:5881 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:89  
L:5884 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:89  
L:5894 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:90  
L:5897 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:90  
L:5907 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:91  
L:5910 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:91  
L:5920 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:92  
L:5923 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:92  
L:5933 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:93  
L:5936 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:93  
L:6143 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:96  
L:6146 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:96  
L:6156 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:97  
L:6159 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:97  
L:6169 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:98  
L:6172 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:98  
L:6884 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:105  
L:6887 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:105  
L:6897 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:106  
L:6900 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:106  
L:6910 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:107  
L:6913 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:107  
L:6923 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:108  
L:6926 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:108

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/10/006,856

DATE: 12/14/2001  
TIME: 10:21:12

Input Set : A:\Seq\_List\_for\_P2830P1C14.wpd  
Output Set: N:\CRF3\12142001\I006856.raw

L:6936 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:109  
L:6939 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:109  
L:7066 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:112  
L:7069 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:112  
L:7079 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:113  
L:7082 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:113  
L:7092 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:114  
L:7095 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:114  
L:7473 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:119  
L:14262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:259  
L:20824 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:20824 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:20939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:377  
L:22554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:422

<210> 1  
<211> 43  
<212> DNA  
<213> Artificial

<220>  
<221> Artificial Sequence  
<222> 1-43  
<223> Sequence - Artificial

<400> 1  
tgtaaaacga cggccagttt aatagacctg caattattaa tct 43

<210> 2  
<211> 41  
<212> DNA  
<213> Artificial

<220>  
<221> Artificial Sequence  
<222> 1-41  
<223> Sequence - Artificial

<400> 2  
caggaaacag ctatgaccac ctgcacacct gcaaatccat t 41

invalid, see error summary  
sheet item 11

<210> 375  
<211> 1098  
<212> DNA  
<213> Artificial

<400> 375

gcgacgcgcg gcggggcggc gagagaaac gcggcgccgg gccgggccccg 50

requires <220> to <223>  
see error summary sheet, item 11